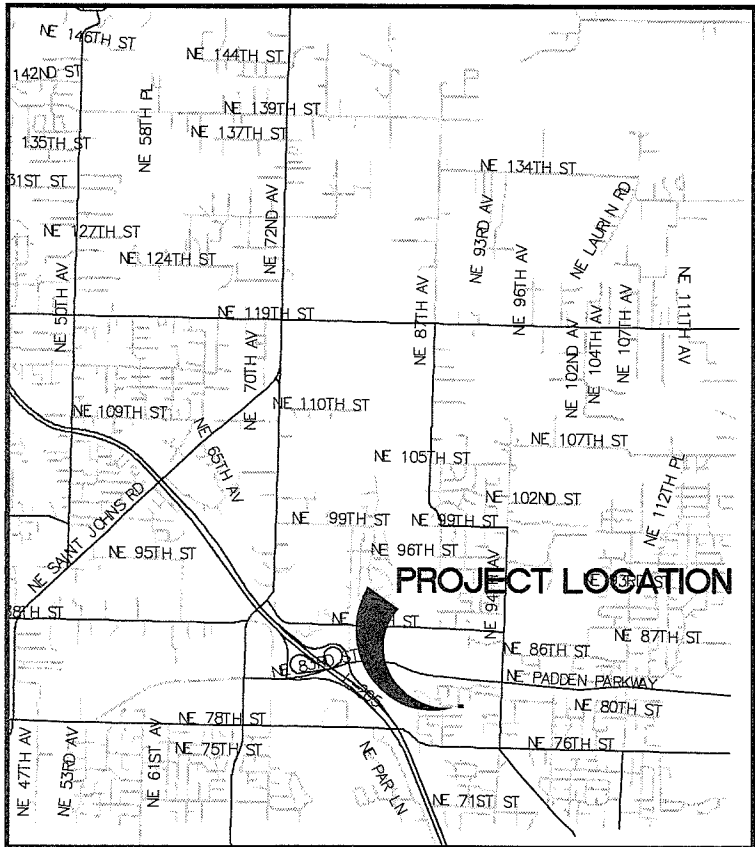
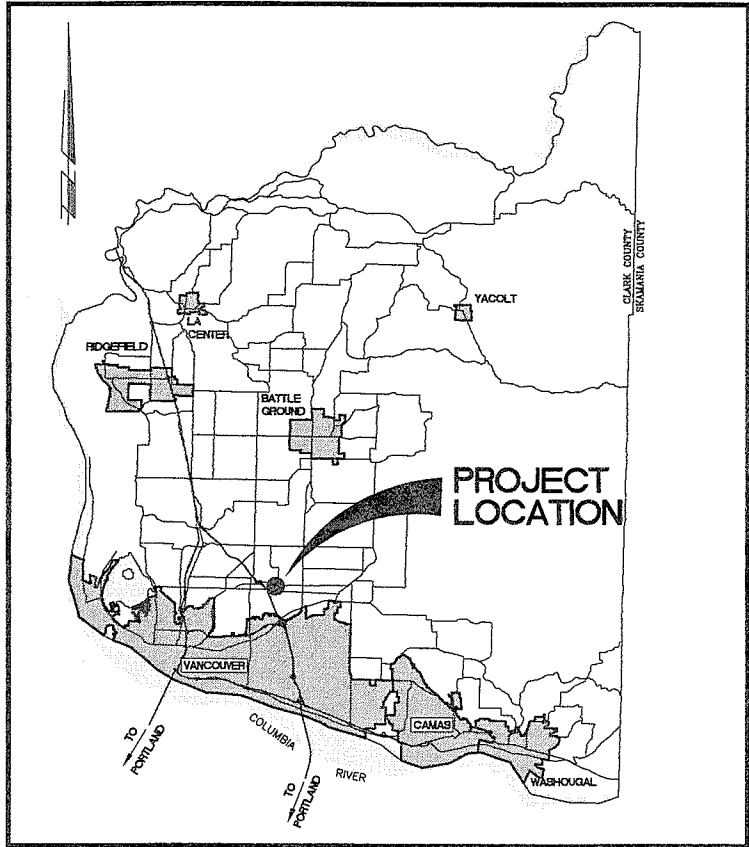


CAPITAL IMPROVEMENTS PROGRAM
COUNTY ROAD PROJECT #341111

NE 81ST STREET

VICINITY OF NE 90TH AVENUE TO NE 91ST AVENUE

PLANS FOR THE CONSTRUCTION OF
ROADWAYS, CURB, SIDEWALK, AND CULVERT



SUMMARY OF QUANTITIES

| ITEM NO. | APPROX. QUANTITY | UNIT | DESCRIPTION |
|----------|------------------|-------|--|
| 1 | 1 | LS | MOBILIZATION |
| 2 | -1 | CALC. | MINOR CHANGE |
| 3 | 54 | SF | CONSTRUCTION SIGNS CLASS "A" |
| 4 | 1 | LS | CLEARING AND GRUBBING |
| 5 | 1 | LS | ROADSIDE CLEANUP |
| 6 | 1 | LS | REMOVAL OF STRUCTURES AND OBSTRUCTION |
| 7 | 300 | CY | ROADWAY EXCAVATION (INCL. HAUL) |
| 8 | 62 | TN | CRUSHED SURFACING BASE COURSE |
| 9 | 45 | TN | ASPHALT CONCRETE PAVEMENT CL. A PG 64-22 |
| 10 | 104 | LF | SAWCUT EXISTING PAVEMENT |
| 11 | 15 | CY | GRAVEL BACKFILL FOR WALLS |
| 12 | 75 | CY | GRAVEL BACKFILL FOR PIPE ZONE BEDDING |
| 13 | 177 | SF | RETAINING WALL |
| 14 | 50 | LF | PRECAST CONCRETE CULVERT |
| 15 | 135 | SF | PRECAST HEADWALL |
| 16 | 26 | LF | STORM SEWER PIPE, 12 IN. DIAM. |
| 17 | 2 | EACH | CATCH BASIN TYPE 1 |
| 18 | 25 | LF | SLOTTED DRAIN, 12 IN. DIAM. |
| 19 | 2 | EACH | CONNECTION TO DRAINAGE STRUCTURE |
| 20 | 0.02 | ACRE | SEEDING AND MULCHING |
| 21 | 1 | LS | STREAM FLOW BYPASS |
| 22 | 1 | LS | EROSION CONTROL |
| 23 | 4 | EACH | INLET PROTECTION |
| 24 | 40 | HOURL | ESC LEAD |
| 25 | 1 | LS | CONSTRUCTION STORMWATER FILTERING |
| 26 | 1 | LS | SPILL PREVENTION PLAN |
| 27 | 95 | LF | CEMENT CONC. BARRIER CURB AND GUTTER |
| 28 | 24 | SY | CEMENT CONCRETE SIDEWALK (INCL. RAMP) |
| 29 | 10 | CY | HAND PLACED RIPRAP |

LEGEND

| | |
|--|-------------------------------|
| | ROW LINE |
| | NEW EDGE OF PAVEMENT |
| | NEW CURB LINE |
| | NEW CENTER LINE |
| | NEW FENCE LINE |
| | NEW STORM DRAIN OR CULVERT |
| | NEW FILL LIMITS |
| | NEW CUT LIMITS |
| | SAWCUT LINE |
| | PERMANENT SLOPE EASEMENT |
| | NEW SILT FENCE |
| | EXISTING PROPERTY LINE |
| | EXISTING EDGE OF PAVEMENT |
| | EXISTING CURB LINE |
| | EXISTING CENTER LINE |
| | EXISTING TELEPHONE LINE |
| | EXISTING WATER LINE |
| | EXISTING UNDERGROUND ELECTRIC |
| | EXISTING SANITARY SEWER LINE |
| | EXISTING STORM DRAINAGE |
| | EXISTING GAS LINE |
| | EXISTING CULVERT |
| | EXISTING DITCH CENTER LINE |
| | EXISTING GUARDRAIL |

SYMBOLS

| | | | |
|--|----------------------------------|--|-----------------------------|
| | NEW CATCH BASIN (CB) | | EXISTING CURB INLET (CI) |
| | NEW MANHOLE (MH) | | EXISTING CATCH BASIN (CB) |
| | NEW CURB INLET (CI) | | EXISTING STORM MH |
| | NEW COMBINATION CURB INLET (CCI) | | EXISTING MISC MH |
| | NEW FIRE HYDRANT | | EXISTING SHRUB |
| | NEW MAIL BOX | | EXISTING CONIFEROUS TREE |
| | NEW HANDICAP RAMP | | EXISTING DECIDUOUS TREE |
| | CURVE TABLE | | EXISTING SIGN |
| | EXISTING TRANSFORMER | | EXISTING DECIDUOUS TREE |
| | EXISTING ELEC TOWER | | EXISTING J BOX |
| | EXISTING SANITARY SEWER MH | | EXISTING TELEPHONE MANHOLE |
| | EXISTING FIRE HYDRANT | | EXISTING TELEPHONE POLE |
| | EXISTING CLEAN OUT | | EXISTING LIGHT |
| | EXISTING GAS VALVE | | EXISTING GUY ANCHOR |
| | EXISTING WATER METER | | EXISTING POWER POLE |
| | EXISTING WATER VALVE | | EXISTING MAIL BOX |
| | EXISTING SIGNAL POLE | | EXISTING TELEPHONE PEDESTAL |
| | EXISTING TELEPHONE VAULT | | EXISTING SPRINKLER HEAD |
| | EXISTING TELEVISION BOX | | TRAVERSE POINT |
| | EXISTING BRUSH LINE | | TEST HOLE |
| | EXISTING HEDGE | | CURB RAMP |
| | | | EXISTING WELL |

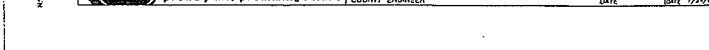
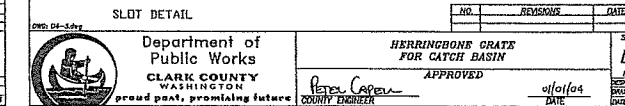
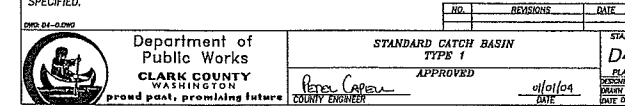
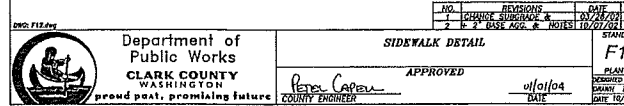
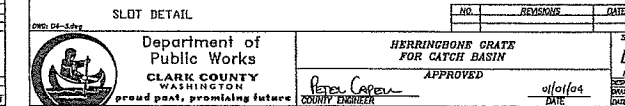
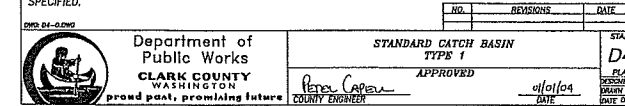
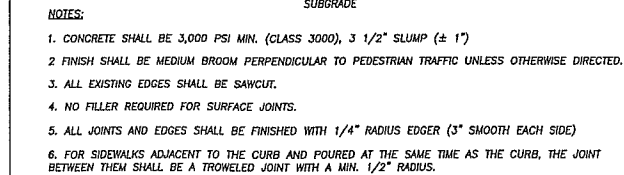
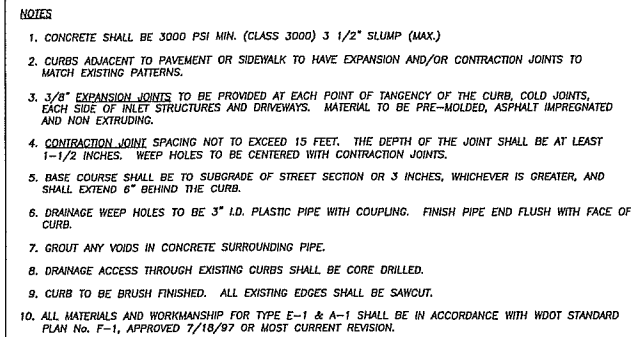
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CRP 341111
HOR. NA
VERT. NA
DATE APRIL 2006
DWG: S01
SHEET 2 OF 8

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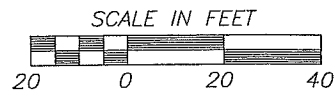
ENGINEERING PROGRAM
NE 81st STREET
SUMMARY OF QUANTITIES & LEGEND

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CLARK COUNTY
WASHINGTON



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Worm



1. SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

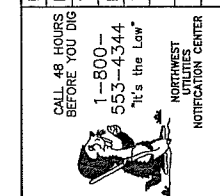
2. SEE HPA PERMIT AND OTHER RELATED PERMITS FOR ADDITIONAL CONDITIONS TO BE MET DURING CONSTRUCTION.

3. CONTRACTOR SHALL LIMIT HIS OPERATIONS IN THE CREEK AREA TO MINIMUM NECESSARY FOR CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING, SEEDING, AND MULCHING OF ALL DISTURBED AREA.

4. CREEK MAY BE ALLOWED TO POND WITHIN THE FLOOD PLAIN AREA WITHIN THE VICINITY OF THE PROJECT. PONDING SHALL NOT BE ALLOWED TO EXCEED ELEVATION 210.50. EXCESS RUNOFF SHALL BE PUMPED ACROSS NE 81ST STREET.

5. CONSTRUCTION STORMWATER SHALL BE DISCHARGED IN ACCORDANCE TO DEPARTMENT OF ECOLOGY. TRENCH Dewatering SHALL NOT BE DISCHARGED TO THE CREEK OR ADJACENT AREAS. TRENCH Dewatering SHALL BE TREATED BY BAKER TANKS OR OTHER APPROVED METHODS AND DISCHARGED TO THE ADJACENT STORM SYSTEM. CHEMICAL TREATMENT (LIQUID CHITOSAN) MAY BE REQUIRED.

| | |
|----------|------------|
| DESIGNED | RK |
| DRAWN | RK |
| CRP | 131111 |
| HOR. | 1"=20' |
| VERT. | NA |
| DATE | APRIL 2006 |
| DWG: | EC01 |
| SHEET | 4 OF 8 |



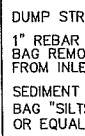
ENGINEERING PROGRAM

NE 81st STREET
EROSION CONTROL PLAN

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CLARK COUNTY
WASHINGTON

EXPIRES: JUNE 22, 2015



INLET SEDIMENT CONTROL DEVICE - SILT SACK
NTS

NOTES:

-

Department of
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CLARK COUNTY
WASHINGTON
and past, promising future

INLET PROTECTION TYPE
SILT SACK
APPROVED

STANDARD
E-3d
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 08/07/08

1. The Contractor shall install and maintain BMP's as shown and perform all actions necessary to prevent erosion, and control sediment from leaving the construction site. Site Contractor shall comply with Clark County Code Chapter 40.380.050.

- CONTINUED ON SHEET 2

| NO. | REVISIONS | DATE | BY |
|-----|-----------|------|----|
| | | | |
| | | | |



Department of
Public Works
CLARK COUNTY
WASHINGTON
and part, promising f

STANDARD NOTES FOR
EROSION CONTROL PLAN

APPROVED

Peter Capen
 COUNTY ENGINEER

STANDARD
ECN1

| |
|---------------|
| PLAN No. |
| DESIGNED SCH |
| DRAWN SCH |
| DATE 02/02/01 |

13. All conveyance channels, both temporary and permanent shall be stabilized to prevent erosion of the channel. Stabilization shall extend to areas at outlets and downstream reaches vulnerable to erosion resulting from flow discharging from the channel.

- 

Department of
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WASHINGTON
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SHEET 2 OF 2

STANDARD NOTES (CONTINUED)

APPROVED

| | |
|----------|--|
| STANDARD | |
| ECA | |

PLAN 1
DESIGNED BY
DRAWN BY
DATE 07/23

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ENGINEERING PROGRAM

NE 81st STREET
EROSION CONTROL DETAILS

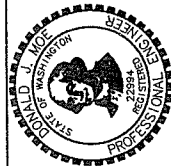


EXHIBIT III-10-1

| | |
|----------|----------|
| DESIGNED | RK |
| DRAWN | RK |
| CRP | 131111 |
| HOR. | 20 |
| VERT. | NA |
| DATE | APRIL 20 |
| DWG: | EC02 |
| SHEET | 5 OF |

STORM NOTES:

- 1

BEGIN SLOTTED DRAIN
1+56.20 (19.74' LT.)
L = 15'
- 2

STM. CB #1
1+71.20 (20.54' LT.)
GRATE = 211.12
IE 12" CMP IN (W) = 209.37
IE 12" DIP OUT (E) = 209.17
- 3

12" D.I.P. STM
S = 0.005, L = 13'
CORE & CONNECT TO CULVERT
IE 209.11
- 4

BEGIN SLOTTED DRAIN
1+61.20 (18.35' RT.)
L = 10'
- 5

STM. CB #2
1+71.20 (19.08' RT.)
GRATE = 211.08
IE 12" CMP IN (W) = 209.33
IE 12" DIP OUT (E) = 209.13
- 6

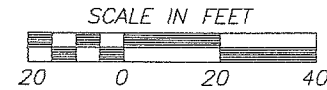
12" D.I.P. STM
S = 0.005, L = 13'
CORE & CONNECT TO CULVERT
IE 209.07

CONSTRUCTION NOTES:

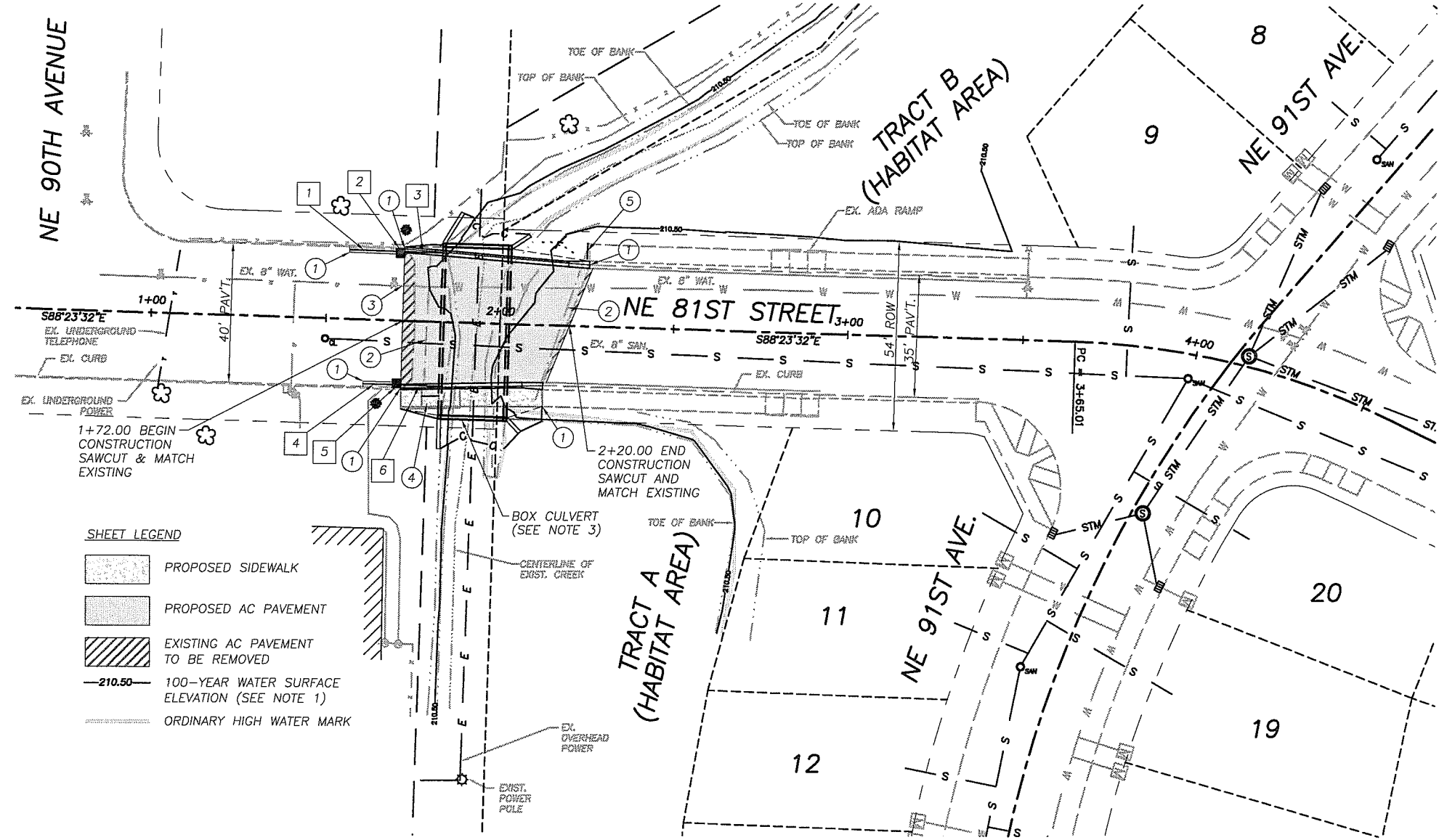
- 1 SAWCUT AND/OR MATCH EXIST. PAVEMENT CURB AND/OR SIDEWALK.
- 2 REMOVE EXISTING BARRICADE AND/OR GUARDRAIL.
- 3 WATER LINE TO BE RELOCATED BY CITY OF VANCOUVER OPERATIONS.
(360) 696-8177
- 4 TYPE 3 RAMP.
- 5 SIDEWALK BARRICADE, L=5'.

GENERAL NOTE:

1. 100-YEAR WATER SURFACE ELEVATION BASED ON FLOOD PLAIN REVIEW NO. FLP2004-00053 AND SUPPORTING DOCUMENTATION.
2. EXISTING UTILITIES SHOWN EAST OF STATION 3+00 ARE APPROXIMATE BASED ON APPROVED PLANS FOR PRAIRIE ESTATES PUD. THE CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND REPORT ANY POTENTIAL CONFLICTS TO THE ENGINEER.
3. 3' BY 18' BY 50' LONG PRECAST BOX CULVERT. SEE SHEET SC1.

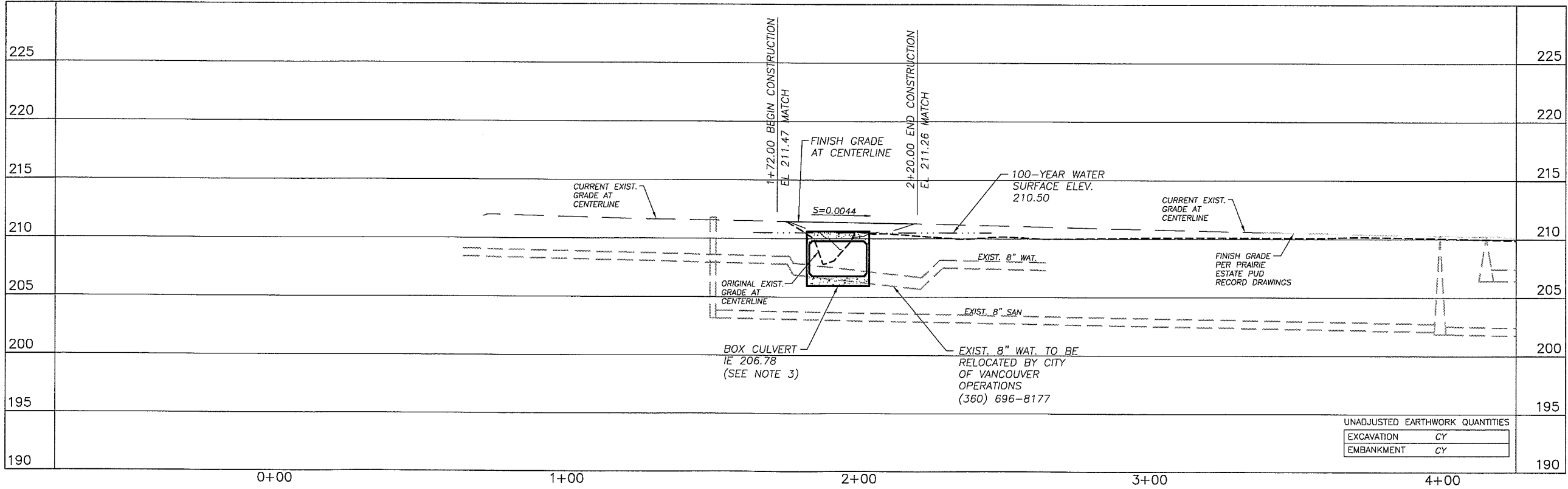


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- SHEET LEGEND
- PROPOSED SIDEWALK
- PROPOSED AC PAVEMENT
- EXISTING AC PAVEMENT TO BE REMOVED
- 210.50-

100-YEAR WATER SURFACE ELEVATION (SEE NOTE 1)
- ORDINARY HIGH WATER MARK



UNADJUSTED EARTHWORK QUANTITIES

| | |
|------------|----|
| EXCAVATION | CY |
| EMBANKMENT | CY |

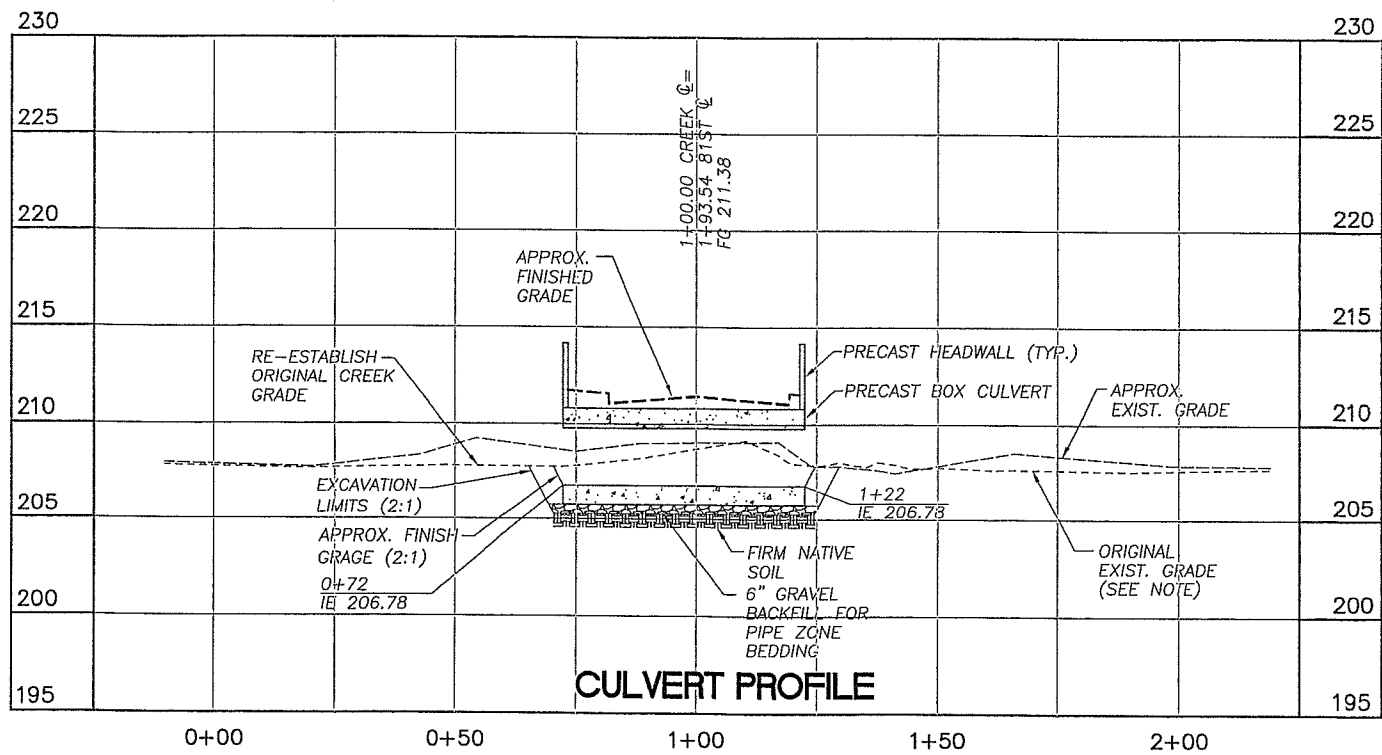
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SHEET 6 OF 8

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PLAN & PROFILE
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WASHINGTON

PLOTTED: Apr 09, 2006 - 11:14pm LARS DRAWING FILE #142001420214-DESIGN(DWG)3-FINAL DESIGN(RST_SCI.dwg



NOTE:
CREEK GRADE IMPACTED BY CONSTRUCTION
OF SANITARY AND WATER, FALL 2005.
CONTRACTOR TO RE-ESTABLISH ORIGINAL
CREEK PROFILE.

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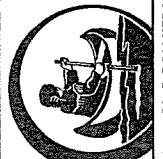


EXPRESS: JUNE 22, 2008

ENGINEERING PROGRAM

NE 81st STREET
PADDEN CREEK PLAN & PROFILE

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HOR. 1"=20'
VERT. 1"=5'
DATE APRIL 2006
DWG: SC1
SHEET 7 OF 8

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